

METHOD OF MAKING A SEMICONDUCTOR
RADIATION EMITTER PACKAGE

ABSTRACT OF THE DISCLOSURE

A semiconductor optical radiation package includes a leadframe, at least one semiconductor optical radiation emitter, and an encapsulant. The leadframe has a heat extraction member, which supports the semiconductor optical emitter and provides one or more thermal paths for removing heat generated within the emitter to the ambient environment, as well as at least two electrical leads for providing electrical coupling to the semiconductor optical radiation emitter. The encapsulant covers and protects the emitter and optional wire bonds from damage and allows radiation to be emitted from the emitter into the ambient environment. The semiconductor optical radiation package provides high emitted flux and is preferably compatible with automated processing techniques.